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1655

03037.000100

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
SHIGEAKI HARAYAMA ET AL. : Examiner: Arun K. Chakrabarth
Application No.: 09/742,123 : Group Art Unit: 1655
Filed: December 22, 2000 :
For: SYNTHESIS OF HYBRID :
POLYNUCLEOTIDE MOLECULES :
USING SINGLE-STRANDED :
POLYNUCLEOTIDE MOLECULES : July 19, 2002

Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents are also enclosed.

U.S. Patent No. 5,521,291 is enclosed as a family-member equivalent for the non-English documents (WO 93/07282).

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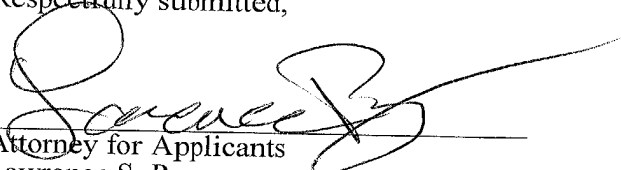
CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

We also enclose a check for the required fee of \$180.00 to cover the Information Disclosure Statement under 37 C.F.R. 1.97©)(2).

Applicants' undersigned attorney may be reached in our New York office by telephone at (212) 218-2100. All correspondence should continue to be directed to our address given below.

Respectfully submitted,



Attorney for Applicants
Lawrence S. Perry
Registration No. 31,865

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FORM PTO 1449 (modified) U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)				ATTY DOCKET NO. 03037.000100		APPLICATION NO. 09/742,123	
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;"> JUL 22 2002 U.S. PATENT & TRADEMARK OFFICE </div>				APPLICANT Shigeaki Harayama, et al.			
				FILING DATE December 22, 2000		GROUP 1655	
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		5,252,479	10/12/93	Srivastava	435	235.1	
		5,521,291	5/28/96	Curiel, et al.	530	391.7	
		5,573,907	11/12/96	Carrino et al.	435	6	
		5,605,793	2/25/97	Stemmer	435	6	
		5,811,238	9/22/98	Stemmer et al.	435	6	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		0 415 731	3/91	EP			
		0 911 396	4/99	EP			
		90/07936	7/90	PCT			
		93/07282	4/93	PCT			
		97/20078	6/97	PCT			
		98/32845	7/98	PCT			
		98/58080	12/23	PCT			
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	1	Alber, et al., "Contributions of hydrogen bonds of Thr 157 to the...", Nature, Vol. 330, No. 5 (1987), pages 41-46					
	2	Arrizubieta, et al., "Increased Thermal Resistance and Modification of...", The Journal of Biological Chemistry, Vol. 275, No. 37 (2000), pages 28843-28848					
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	7	Buchholz, et al., "In vivo selection of protease cleavage sites from...", Nature Biotechnology, Vol. 16 (1998), pages 951-954					
	8	Chang, et al., "Evolution of a cytokine using DNA family shuffling", Nature Biotechnology, Vol. 17 (1999), pages 793-797					
	9	Christians, et al., "Directed evolution of thymidine kinase for AZT phosphorylation using DNA family shuffling", Nature Biotechnology, Vol. 17 (1999), pages 259-164					
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